FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

l	OMB APPROVAL									
	OMB Number:	3235-0287								
l	Estimated average burden									
	hours per response:	0.5								

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

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1. Name an Leschly		2. Issuer Name and Ticker or Trading Symbol bluebird bio, Inc. [BLUE]									5. Relationship of Reporting Person(s) to Issuer (Check all applicable)									
Lesciny	INICK											X	Direc	ctor	10%	Owner				
(Last)	3. [Date of Earliest Transaction (Month/Day/Year)									X	Offic belov	er (give title w)	Othe belo	r (specify w)					
C/O BLU	06	06/27/2017										President and CEO								
60 BINNEY STREET																				
———							4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable				
(Street)															Line) X Form filed by One Reporting Person					
CAMBR	IDGE M	IA ()2142	2											Form filed by More than One Reporting					
(City)	(S	tate) (Zip)												Person					
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Yea					on Year)	2A. Deemed Execution Date,		е,	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and					5. Amount of Securities Beneficially Owned Following		6. Ownership Form: Direct (D) or Indirec (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership	
							Code	e V	Ar	mount	(A) or (D)	Price		Reported Transaction(s) (Instr. 3 and 4)			(Instr. 4)			
Common	17				S ⁽¹⁾)		13,712	D	\$107.6	53 ⁽²⁾		60,656	D						
Common Stock 06/27/2017							,)		11,288	D	\$108.5	246 ⁽³⁾ 349		49,368	D		
Common Stock																1	17,186	I	Nick Leschly 2001 Trust	
		Та	ble	II - Deriva												vned				
				(e.g., p	uts, c	calls,	warra	ants	s, o _l	ptions	s, c	convertib	ole se	curities	5)					
1. Title of Derivative Security (Instr. 3)	rivative Conversion Date Execution Date, curity or Exercise (Month/Day/Year) if any				ransaction ode (Instr. C		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		Expiration Date			d 7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		Deriv Secu (Inst			Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)		
					Code	v	(A)	(D)		ate xercisab	ole	Expiration Date	Title	Amount or Number of Shares						

Explanation of Responses:

- 1. The sales reported in this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on December 22, 2016.
- 2. The range of prices for the transaction reported on this line was \$107.10 to \$108.05. The average weighted price was \$107.6530. The reporting person will provide, upon request by the SEC, the issuer or a security holder of the issuer, full information regarding the number of shares sold at each separate price.
- 3. The range of prices for the transaction reported on this line was \$108.10 to \$109.00. The average weighted price was \$108.5246. The reporting person will provide, upon request by the SEC, the issuer or a security holder of the issuer, full information regarding the number of shares sold at each separate price.

Remarks:

/s/ Jason F. Cole, Attorney-in-06/29/2017 <u>Fact</u>

** Signature of Reporting Person Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

- * If the form is filed by more than one reporting person, see Instruction 4 (b)(v).
- ** Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.